

Claims

What is claimed is:

1. An improved socket connector having a flexible interior barrier to prevent incorrect insertion of a smaller sized plug, the socket having a socket entry and a socket cavity for receiving a correctly sized plug, the flexible internal barrier comprising:

a flexible ramp fixedly attached at one end to the socket entry, and which extends an other movable end into the socket cavity;

a vertical barrier attached to the movable end, which moves with the movable end of the flexible ramp, the vertical barrier being in a central stopping position when the correctly sized plug is not inserted and the flexible ramp is not moved, and the vertical barrier being moved away from the central stopping position when the correctly sized plug is inserted which engages and moves the flexible ramp.

2. An improved socket connector as in claim 1, where the socket is an RJ45 network socket, the correctly sized plug is an RJ45 network plug and the smaller sized plug is an RJ11 telephone plug.

3. An improved socket connector having a flexible interior barrier to prevent incorrect insertion of a incorrectly sized narrow plug, the socket having a socket entry and a socket cavity for receiving a correctly sized wide plug, the flexible internal barrier comprising;

at two opposite sides of the socket cavity, a flexible ramp having one end fixedly attached at the entry and which extends a second movable end into the socket cavity, the movable end further having a vertical barrier which moves with the movable end of the flexible ramp, the flexible ramp and vertical barrier configured such that the insertion of the correctly sized wide plug will engage a side of the plug with the flexible ramp, riding along and moving the flexible ramp so that the vertical barrier is moved out of a stopping position, and allowing the correctly sized wide plug to pass the vertical barrier and to be fully and properly seated in the socket cavity, but further configured such that the insertion of the incorrectly sized narrow plug will fail to engage a side of the plug with the flexible ramp, leaving the vertical barrier in its stopping position, and preventing the incorrectly sized narrow plug from being further inserted into the socket cavity past the vertical barrier.

4. An improved socket connector as in claim 3, where the improved socket connector is an RJ45 network socket , the correctly sized wide plug is an RJ45 network plug, and the incorrectly sized narrow plug is an RJ11 telephone plug.

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